Request.— Paul Schulwitz

Access DB# 136048

SEARCH REQUEST FORM

Scientific and Technical Information Center

OCT 25 2004

Requester's Full Name: Sabiha Qazi (STIC) Examiner #: 74141 Date: 10/25/04

Art Unit: 1616 Phone Number 30 306-2622 Serial Number: 10/816,611

Mail Box and Bldg/Room Location: 4C70, Rem, 4A45 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 6 Alkyl or Alkenyl-4-aminopicolinates + their use as herbicides

Inventors (please provide full names): Burysek et al

Earliest Priority Filing Date: 4/2/2003

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search for 6-alkyl or alkenyl 4 aminopicolinates of formula I in cl 1 and their uses

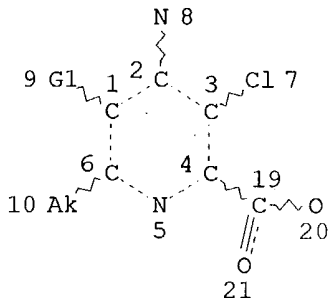
Please see attached sheet

Thank you

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher:	NA Sequence (#)	STN
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed:	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time:	Other	Other (specify)

PTO-1590 (8-01)

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L10 STR



VAR G1=H/F
NODE ATTRIBUTES:
NSPEC IS RC AT 8
CONNECT IS E1 RC AT 20
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L13 8 SEA FILE=REGISTRY SSS FUL L10
L14 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

=> d l14 ibib abs hitstr 1-2

L14 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:825101 HCAPLUS
TITLE: 6-Alkyl or alkenyl-4-aminopicolinates and their use as herbicides
INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Fields, Stephen Craig; Irvine, Nicholas Martin; Lo, William Chi-Leung; Lowe, Christian Thomas; Richburg, John Sanders; Schmitzer, Paul Richard
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 12 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

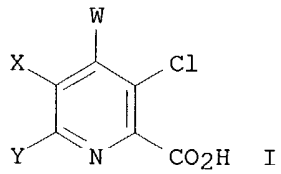
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004198608	A1	20041007	US 2004-816611	20040402
WO 2004089906	A2	20041021	WO 2004-US10358	20040402

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

PRIORITY APPLN. INFO.: US 2003-459892P P 20030402

GI



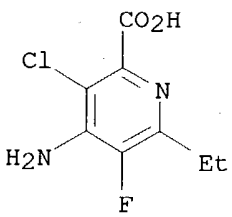
I

AB 4-Aminopicolinates with alkyl or alkenyl substituents in the 6-position (I, wherein X = H, F; Y = C1-4 alkyl, C1-4-alkoxy- or thioalkoxy-substituted alkyl, or C2-3 alkenyl; and W represents NO2, N3, NR1R2, etc.; R1 and R2 independently = H, C1-6 alkyl, etc.) and their amine and acid derivs. are potent herbicides demonstrating a broad spectrum of weed control. Thus, Me 4-amino-3-chloro-6-ethylpyridine-2-carboxylate (II) at 250 ppm controlled cocklebur (Xanthium strumarium), lamb's-quarters (Chenopodium album), and pigweed (Amaranthus retroflexus) by 95, 100, and 98%, resp. (postemergent control), with no injury to corn (Zea mays). Preemergent control of lamb's-quarters by II at 280 ppm was 98%.

IT **767334-35-0 767334-36-1 767334-37-2**
767334-38-3 767334-39-4 767334-40-7
767334-41-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as herbicide with broad spectrum of weed control)

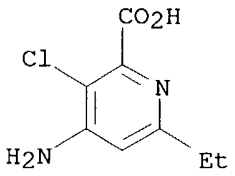
RN 767334-35-0 HCAPLUS

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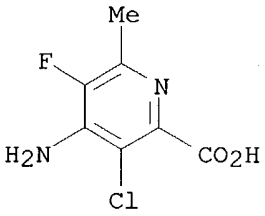


RN 767334-36-1 HCAPLUS

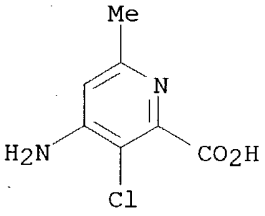
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-ethyl- (9CI) (CA INDEX NAME)



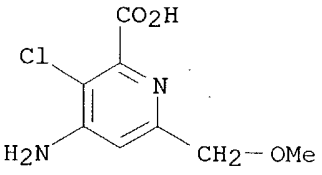
RN 767334-37-2 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-5-fluoro-6-methyl- (9CI) (CA INDEX NAME)



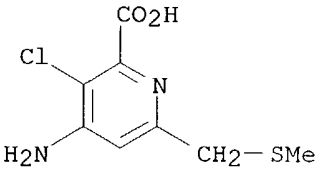
RN 767334-38-3 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-methyl- (9CI) (CA INDEX NAME)



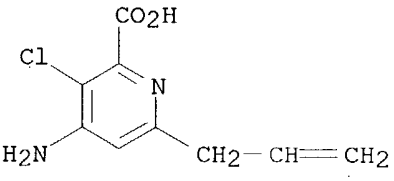
RN 767334-39-4 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(methoxymethyl)- (9CI) (CA INDEX NAME)



RN 767334-40-7 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-[(methylthio)methyl]- (9CI) (CA INDEX NAME)



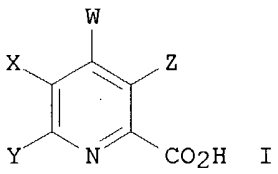
RN 767334-41-8 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-propenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:117817 HCAPLUS
DOCUMENT NUMBER: 138:153444
TITLE: Preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity
INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Epp, Jeffrey Brian; Fields, Stephen Craig; Lowe, Christian Thomas; Keese, Renee Joan; Richburg, John Sanders, III; Ruiz, James Melvin; Weimer, Monte Ray; Green, Renard Antonio; Gast, Roger Eugene; Bryan, Kristy; Irvine, Nicholas Martin; Lo, William Chi-Leung; Brewster, William Kirkland; Webster, Jeffrey Dale
PATENT ASSIGNEE(S): Dow Agrosciences LLC Patent Department, USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011853	A1	20030213	WO 2002-US24120	20020730
WO 2003011853	C1	20040715		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003114311	A1	20030619	US 2002-209448	20020730

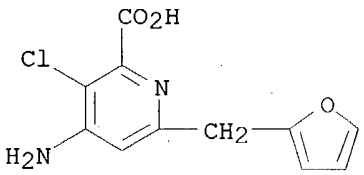
US 6784137 B2 20040831
EP 1414814 A1 20040506 EP 2002-756794 20020730
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
BR 2002011532 A 20040914 BR 2002-11532 20020730
PRIORITY APPLN. INFO.: US 2001-308617P P 20010730
WO 2002-US24120 W 20020730
OTHER SOURCE(S): MARPAT 138:153444
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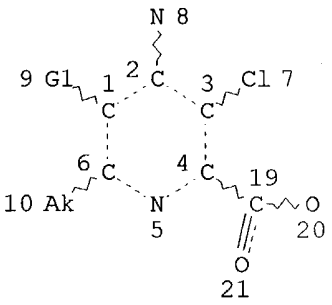
AB 6-Aryl-4-aminopicolinic acids (shown as I; variables defined below; e.g. 4-amino-3-chloro-6-(4-methylphenyl)pyridine-2-carboxylic acid) and agriculturally acceptable derivs. of the carboxylic acid group are potent herbicides demonstrating a broad spectrum of weed control. Twelve herbicidal compns. are tabulated. Although the methods of preparation are not claimed, 47 example prepns. are included and >200 specific I are mentioned along with phys. and/or herbicidal properties. Post-emergent herbicidal activities are included for some I against cocklebur (Xanthium strumarium), lambsquarter (Chenopodium album), barnyard grass (Echinochloa crus-galli) and yellow nutsedge (Cyperus esculentus); selectivity to wheat and corn is also shown. Pre-emergent herbicidal activities are included for some I against lambsquarter (Chenopodium album), pigweed (redroot) (Amaranthus retroflexus), crabgrass (large) (Digitaria sanguinalis), and giant foxtail (Setaria faberii). For I: X = H, halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; Y = aryl, Ph, indanyl or naphthyl or heteroaryl (5- or 6-membered heteroarom. rings containing ≥1 heteroatoms which may be fused to other aromatic systems; aryl or heteroaryl group being unsubstituted or substituted with ≥1 substituents = halogen, hydroxy, nitro, cyano, aryloxy, formyl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 alkoxy, halogenated C1-C6 alkyl, halogenated C1-C6 alkoxy, C1-C6 acyl, C1-C6 alkylthio, C1-C6 alkylsulfinyl, C1-C6 alkylsulfonyl, aryl, C1-C6 OC(O)alkyl, C1-C6 NHC(O)alkyl, C(O)OH, C1-C6 C(O)Oalkyl, C(O)NH2, C1-C6 C(O)NHalkyl, C1-C6 C(O)N(alkyl)2, -OCH2CH2-, -OCH2CH2CH2-, -OCH2O- or -OCH2CH2O-). Z = halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; and W = -NO2, -N3, -NR1R2, -N:CR3R4 or -NHN:CR3R4 (R1 and R2 = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl, heteroaryl, hydroxy, C1-C6 alkoxy, amino, C1-C6 acyl, C1-C6 carboalkoxy, C1-C6 alkylcarbamyl, C1-C6 alkylsulfonyl, C1-C6 trialkylsilyl or C1-C6 dialkyl phosphonyl or R1 and R2 taken together with N = 5- or 6-membered (un)saturated ring which may contain addnl. O, S or N heteroatoms; and R3 and R4 = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl or heteroaryl or R3 and R4 taken together with :C = a 5- or 6-membered saturated ring).

IT **496852-30-3P**, 4-Amino-3-chloro-6-(2-furfuryl)pyridine-2-carboxylic acid
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity)
RN 496852-30-3 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-furanylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d que l12
L10 STR



VAR G1=H/F
NODE ATTRIBUTES:
NSPEC IS RC AT 8
CONNECT IS E1 RC AT 20
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L12 0 SEA FILE=BEILSTEIN SSS FUL L10

USPTO Patent Full-Text and Image Database

10/816,611

Searching 1976 to present...

Results of Search in 1976 to present db for:
AN/(Dow AND AgroSciences): 107 patents.
*Hits **1** through **50** out of **107***

Next 50 Hits

Jump To

Refine Search AN/(Dow AND AgroSciences)

	PAT. NO.	Title
1	6,800,614	Pesticidal macrolides
2	6,794,513	Preparation of 3,6-dichloro-2-trichloromethylpyridine by vapor phase chlorination of 6-chloro-2-trichloromethylpyridine
3	6,791,013	Maize MIP synthase promoter
4	6,784,137	6-aryl-4-aminopicolinates and their use as herbicides
5	6,770,665	Insecticial 3-(2,6-disubstituted phenyl)-5-[4- or 5-arylthien-2- or -3-yl]-1,2,4-triazoles
6	6,767,863	High-strength low-viscosity agricultural formulations
7	6,767,742	Antibody-mediated down-regulation of plant proteins
8	6,753,460	Methods and genetic compositions to limit outcrossing and undesired gene flow in crop plants
9	6,753,459	Transgenic plants and methods for production thereof
10	6,734,143	2-methoxyimino-2(pyridinyloxymethyl)phenyl acetamides useful as fungicides
11	6,730,824	Whisker-mediated transformation of cotton embryogenic callus tissues and regeneration of plants thereof
12	6,717,035	Transgenic plants expressing photorhabdus toxin
13	6,706,740	Fungicidal heterocyclic aromatic amides and their compositions, methods of use and preparation
14	6,699,984	Regulatory sequences for transgenic plants
15	6,645,918	N-([1,2,4]triazoloazinyl)thiophenesulfonamide compounds and their use as herbicides
16	6,641,741	Removal and recovery of chloride from phosphonomethyliminodiacetic acid process brine
17	6,599,859	Mulch/herbicide composition

h f g e cg h e ec ec e

18 6,590,142 T Transgenic plants expressing photorhabdus toxin
19 6,585,990 T Compositions and devices using a spinosyn compound for control of insects
20 6,583,088 T Use of spinosynes as soil insecticides
21 6,573,286 T 2-(2,6-disubstituted phenyl)-4-aryl-5-alkyl-1,3-oxazoline compounds
22 6,566,403 T N-acetonylbenzamide fungicides
23 6,559,101 T N- (5, 7-dimethoxy [1, 2, 4] triazolo [1, 5-a] pyrimidin-2-yl) arylsulfonamide compounds and their use as herbicides
24 6,521,622 T Fungicidal heterocyclic aromatic amides and their compositions, methods of use and preparation
25 6,521,406 T SpnG, a gene for spinosyn insecticide biosynthesis
26 6,518,222 T N-([1,2,4] triazoloazinyl) thiophenesulfonamide compounds and their use as herbicides
27 6,500,405 T Use of certain amides as probes for detection of antitubulin activity and resistance monitoring
28 6,495,738 T Modification of fatty acid composition in plants by expression of a fungal acyl-CoA desaturase
29 6,462,240 T Process for the selective deprotonation and functionalization of 3-substituted benzotrifluorides
30 6,455,504 T Pesticidal macrolides
31 6,444,615 T Herbicidal imidazolidinetrione and thioxo-imidazolidinediones
32 6,436,963 T 2-methoxyimino-2-(pyridinyloxymethyl) phenyl acetamides with (derivatised) hydroxyalkyl derivatives on the pyridine ring
33 6,433,169 T Process for the preparation of 2-alkoxy-6-trifluoromethyl-N-([1,2,4]triazolo[1,5-c] pyrimidin-2-yl) benzenesulfonamides
34 6,432,990 T 2-methoxyimino-2-(pyridinyloxymethyl) phenyl acetamides with polyether derivatives on the pyridine ring
35 6,432,951 T 2-methoxyimino-2-(pyridinyloxymethyl)phenyl acetamides with (derivatized) hydroxyalkyl derivatives on the pyridine ring
36 6,423,730 T Method to control termites
37 6,417,187 T 1,2,4-triazole based compounds that can be used as insecticides or acaricides and processes
38 6,417,140 T Herbicide suspension concentrates
39 6,413,997 T 3-(substituted phenyl)-5-(substituted heterocyclyl)-1,2,4-triazole compounds
40 6,413,992 T 3-(substituted pyridyl)-1,2,4-triazole compounds
41 6,410,828 T Regulatory sequences useful for gene expression in plant embryo tissue
42 6,384,207 T Regulatory sequences for transgenic plants
43 6,372,769 T 5-carboxanilido-2,4-bis-trifluoromethylthiazoles and their use to control rice blast
44 6,369,083 T 2-methoxyimino-2 (pyrinyloxymethyl) phenyl acetamides with polyether derivatives on the pyridine ring
45 6,362,335 T Process for the preparation of 2-amino-5,8-dimethoxy(1,2,4)triazolo(1,5c)pyrimidine
46 6,355,660 T Fungicidal heterocyclic aromatic amides and their compositions, methods of use and preparation
47 6,353,020 T Fungicidal compositions containing N-acetonylbenzamides
48 6,352,635 T Selective electrochemical reduction of halogenated 4-aminopicolinic acids
49 6,350,611 T Transcriptional regulatory region

h f g e cg h e ec ec e

50 6,348,627 T Aryl and heteroarylcyclopropyl oxime ethers and their use as fungicides

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